

- 36 (379/39983.ccls. 379/413.0.ccls. 379/413.0.ccls.) and (hook with (detects) trip\$4 state)) with (disabl84 inhibit34 kill\$149 stop\$4 block\$4) 09:19 2003/10/30 2003/10/	L Number	Hits	Search Text	DB	Time stamp
(detect\$3 trip\$4 state)) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 block\$4]) (379/377.cols. 379/375.01.ccls.) and (fhook with (detect\$3 trip\$4 state)) with (disabl\$4 inhibit\$4 kill\$4 stop\$4) (379/377.cols.) 379/375.01.ccls. 379/375.01.ccls	- Number	36		USPAT	
153 (379/377.ccls. 379/375.01.ccls.) 379/373.01.ccls.) 379	_	32	(detect\$3 trip\$4 state)) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 block\$4)) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) and ((hook with	USPAT	2003/10/30
-	-	153	inhibit\$4 kill\$4 stop\$4)) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) and ((stor\$3 load\$3 memor\$4) near4 (parameter voltage current	USPAT	
-	-	292	(379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) and ((stor\$3 load\$3 memor\$4) near4 (parameter voltage current	USPAT	1
13	-	40	(379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4	USPAT	1
- 3 5568547.URPN. USPAT 2003/10/30 09:50 - 16 (("4158109" "4164713" "4297531" USPAT 2003/10/30 09:50	-	13	("4158109" "4164713" "4297531" "4446338" "4455456" "4709296" "4802207" "4937851" "5138658" "5287404" "5293420" "5337354"	USPAT	
- 16 (("4158109" "4164713" "4297531" USPAT 2003/10/30	-	3		USPAT	
- 9 ("4300023" "4315106" "4406929" USPAT 2003/10/30	-	16	"4446338" "4455456" "4709296" "4802207" "4937851" "5138658" "5287404" "5293420" "5337354"	USPAT	2003/10/30
- 4 5337354.URPN. USPAT 2003/10/30 10:25 - 70 (379/377.ccls. 379/375.01.ccls. USPAT 2003/10/30 379/373.01.ccls.) and ((hook) with (disabls4 inhibit\$4 kill\$4 stop\$4 blocking)) - 22 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 35 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 473 (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:47 blocking prevent\$3)) - 473 (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 2016 379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 13:49 - 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) ((379/399\$3.ccls. 379/413.ccls.) ((379/399\$3.ccls. 379/413.ccls.) ((379/399\$3.ccls. 379/413.ccls.) (379/377.ccls. 379/413.01.ccls.) ((379/93.05 379/93.01.ccls.)) and (idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) (((379/399\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.)	-	9	("4300023" "4315106" "4406929" "4431874" "4472608" "4532381"	USPAT	
- 70 (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 22 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 35 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 35 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking prevent\$3)) - 473 (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 2016 379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 13:49 - 2016 379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 13:49 - 622 ((379/399\$3.ccls. 379/43.0cls.) ((379/377.ccls. 379/413.01.ccls.)) ((379/93.05 379/93.06 379/93.07).ccls.) ((379/93.05 379/93.06 379/93.07).ccls.) ((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 (((379/399\$3.ccls. 379/413.ccls. 379/413.cls. 379/413.01.ccls.)) (379/377.ccls. 379/413.01.ccls.)	_	4		USPAT	
- 22 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking)) - 35 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking prevent\$3)) - 473 (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:47 - 2016 379/399\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.01.ccls.) (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 622 ((379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 622 ((379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 623 ((379/93.05 379/93.06 379/93.07).ccls.) (379/375.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls.) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 ((379/399\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.)	_	70	379/373.01.ccls.) and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4	USPAT	2003/10/30
- 35 379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4 blocking prevent\$3)) - 473 (379/93.05 379/93.06 379/93.07).ccls. - 2016 379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) ((379/93.05 379/93.01.ccls.) ((379/93.05 379/93.01.ccls.) ((379/93.05 379/93.01.ccls.) ((379/93.05 379/93.01.ccls.) ((379/39\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.ccls.) ((379/93.05 379/93.01.ccls.) ((379/93.05 379/93.01.ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 ((379/399\$3.ccls. 379/413.ccls. 379/413.ccls.) (379/377.ccls.) 379/413.01.ccls.) (379/377.ccls.) 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls.) 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/373.01.ccls.)	-	22	379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4	USPAT	
- 473 (379/93.05 379/93.06 379/93.07).ccls. USPAT 2003/10/30 13:49 - 2016 379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 13:49 - 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/93.06 379/93.07).ccls. (379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) (379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 ((379/399\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls.) 379/375.01.ccls. 379/373.01.ccls.)	-	35	379/93.05.ccls. and ((hook) with (disabl\$4 inhibit\$4 kill\$4 stop\$4	USPAT	
- 2016 379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) ((379/93.05 379/93.06 379/93.07).ccls. ((379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) ((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 (((379/399\$3.ccls. 379/413.ccls. 379/413.ccls. 379/413.01.ccls.)) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.) (379/377.ccls. 379/413.01.ccls.)	-	473		USPAT	
- 622 ((379/93.05 379/93.06 379/93.07).ccls. ((379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. ((379/93.05 379/93.01.ccls.)) ((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7)) - 69 (((379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.)	-	2016	379/413.01.ccls.) (379/377.ccls.	USPAT	2003/10/30
(state mode config\$7)) - 69 (((379/399\$3.ccls. 379/413.ccls. USPAT 2003/10/30 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.)	-	622	((379/93.05 379/93.06 379/93.07).ccls. ((379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) ((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off	USPAT	
((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7))) and (hook) and (ring\$1trip\$4 ring adj trip\$4)	-	69	(state mode config\$7)) (((379/399\$3.ccls. 379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls. 379/373.01.ccls.) ((379/93.05 379/93.06 379/93.07).ccls.)) and ((idle active ring\$3 off\$1hook off adj hook on\$hook on adj hook) near4 (state mode config\$7))) and (hook) and	USPAT	

-	125	379/382.ccls. and ((idle active ring\$3	USPAT	2003/10/30
		off\$1hook off adj hook on\$hook on adj		14:03
		hook) near4 (state mode config\$7))		
l -	58	(379/382.ccls. and ((idle active ring\$3	USPAT	2003/10/30
		off\$1hook off adj hook on\$hook on adj		14:03
		hook) near4 (state mode config\$7))) and		1
		(hook) and (ring\$1trip\$4 ring adj trip\$4)		1
-	1	6078593.pn.	USPAT	2003/10/31
				10:03
_	292	379/382.ccls.	USPAT	2003/10/31
				09:46
_	l o	6078593.URPN.	USPAT	2003/10/31
				09:48
_	46	("3482030" "3879580" "4135202"	USPAT	2003/10/31
	'*	"4200770" "4207431" "4218582"	•511.12	09:48
		"4367548" "4405829" "4424414"		05.10
		"4496800" "4530008" "4542437"		
		"4553161" "4606023" "4745468"		
		"4763191" "4813012" "4876592"	1	
				1
		"4995082" "4998274" "5034807"		
		"5057915" "5063595" "5128752"		
		"5150247" "5227874" "5231668"	1	
		"5249044" "5272664" "5305312"		
		"5349341" "5349457" "5387927"	1	
		"5418625" "5444710" "5457560"		
		"5499241" "5572347" "5576874"		
ļ		"5600469" "5680394" "5729370"		
		"5781320").PN.		
-	4	(("3482030" "3879580" "4135202"	USPAT	2003/10/31
		"4200770" "4207431" "4218582"		10:05
		"4367548" "4405829" "4424414"	İ	1
		"4496800" "4530008" "4542437"		
	İ	"4553161" "4606023" "4745468"		1
		"4763191" "4813012" "4876592"		
		"4910586" "4926255" "4993019"		
		"4995082" "4998274" "5034807"		
		"5057915" "5063595" "5128752"		
	1	"5150247" "5227874" "5231668"		
		"5249044" "5272664" "5305312"		
		"5349341" "5349457" "5387927"		
		"5418625" "5444710" "5457560"		
		"5499241" "5572347" "5576874"		1
		"5600469" "5680394" "5729370"]
		"5781320").PN.) and (thresh\$1hold		ļ
		threshold)		
-	837	379/399\$3.ccls. 379/413.ccls.	USPAT	2003/10/31
		379/413.01.ccls.		10:05
-	848	379/377.ccls. 379/375.01.ccls.	USPAT	2003/10/31
		379/373.01.ccls.		10:05
-	278	379/93.05.ccls.	USPAT	2003/10/31
				10:05
-	333	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		13:11
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
	1	(hook ring\$1trip ring adj trip) and	1	
	1	(threshold)		
-	129	1 '	USPAT	2003/10/31
		379/413.ccls. 379/413.01.ccls.)		10:07
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and	1	
		(hook ring\$1trip ring adj trip) with	1	
	1	(threshold)		
-	72	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/10/31
		379/413.ccls. 379/413.01.ccls.)		10:07
	1	(379/377.ccls. 379/375.01.ccls.	1	
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(hook ring\$1trip ring adj trip) near5]
		(threshold)]
	I	1_,		



	0.55	(1270/200 3 (270/2004)1-	TTG D D M	10000/10/01
-	257	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/10/31
		379/413.ccls. 379/413.01.ccls.)		10:10
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(hook ring\$1trip ring adj trip) and		
		(threshold)) and ((ring tip loop line		
		terminal feed) near5 (adjust\$3 balanc\$3		
		correct\$3 lower\$3 rais\$3 set\$4))		
	90		USPAT	2003/10/31
-	90		USPAI	10:30
		379/413.ccls. 379/413.01.ccls.)		10:30
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
1		(hook ring\$1trip ring adj trip) and		
		(threshold)) and (((ring tip loop line		
		terminal feed) near5 (adjust\$3 balanc\$3		
		correct\$3 lower\$3 rais\$3 set\$4)) same		
		threshold)		
_	2	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/10/31
	_	379/413.ccls. 379/413.01.ccls.)		10:32
		(379/377.ccls. 379/375.01.ccls.		-
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(hook ring\$1trip ring adj trip) and		
		(threshold)) and (((ring tip loop line		·
	l	(correspond) and (((fing cip foop fine		
		terminal feed) near5 (adjust\$3 balanc\$3		
		correct\$3 lower\$3 rais\$3 set\$4)) same	1	
		threshold same transient)		0000/11/06
-	74		USPAT	2003/11/06
1		379/413.ccls. 379/413.01.ccls.)		09:48
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(hook ring\$1trip ring adj trip) and		
1		(threshold)) and (((ring tip loop line		i
		terminal feed) near5 (adjust\$3 balanc\$3	1	
		correct\$3 decreas\$3 increas\$3 lower\$3		1
		rais\$3)) same threshold)		
	06	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/05
-	96		USPAI	15:39
	ļ	379/413.ccls. 379/413.01.ccls.)		15:39
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
i		(transient same (ring\$1trip ring adj trip	1	
		hook))		/ /
-	56		USPAT	2003/11/05
		379/413.ccls. 379/413.01.ccls.)		15:42
		(379/377.ccls. 379/375.01.ccls.		
1		379/373.01.ccls.) 379/93.05.ccls.) and		
		(((false\$1 fault\$1) near5 (hook switch		l i
1		trip ring\$1trip)))		
_	69		USPAT	2003/11/05
	1	379/413.ccls. 379/413.01.ccls.)		16:01
1	1	(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(current near3 ratio)		
		1 '	USPAT	2003/11/05
1 -	58		USPAI	16:08
		379/413.ccls. 379/413.01.ccls.)	1	10:00
		(379/377.ccls. 379/375.01.ccls.		1
		379/373.01.ccls.) 379/93.05.ccls.) and		1
		(current near3 ratio)) and (hook		1 .
		ring\$1trip ring adj trip switch)		
-	33		USPAT	2003/11/05
		379/413.ccls. 379/413.01.ccls.)	1	16:08
		(379/377.ccls. 379/375.01.ccls.	1	
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(current near3 ratio)) and (hook	1	
		ring\$1trip ring adj trip)	1	
1_	3		USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		09:51
		(379/377.ccls. 379/375.01.ccls.)	1	""
			1	1.
l .		379/373.01.ccls.) 379/93.05.ccls.) and (current near5 threshold near5 transient)		

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_	5	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		09:56
		(379/377.ccls. 379/375.01.ccls.		
İ		379/373.01.ccls.) 379/93.05.ccls.) and		
		(current with threshold with transient)		1
-	59		USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		09:57
		(379/377.ccls. 379/375.01.ccls.		1
		379/373.01.ccls.) 379/93.05.ccls.) and		1
		((current near5 feed) with (switching		
		transient transition state))		1
-	29	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		11:42
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(adjust\$4 near5 threshold)		
-	62	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		12:08
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and	1	
		((hook) with (threshold) with (current))		
-	67		USPAT	2003/11/06
		379/413.ccls. 379/413.01.ccls.)		13:49
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		((hook) with (threshold transition) with		
		(current))		
-	14	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/06
	i	379/413.ccls. 379/413.01.ccls.)		13:59
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		((hook) and ((on\$1hook on adj hook idle		
		stand\$1by stand adj by) with (threshold)		
		with (lower less\$5)))		
-	157	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)	İ	13:06
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		((hook) with (current near5 (limit\$3		
		set\$4 control\$4)))		<u> </u>
-	135	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		11:27
		(379/377.ccls. 379/375.01.ccls.		
1		379/373.01.ccls.) 379/93.05.ccls.) and		
		(constant near4 current near4 (slic feed		
		battery driver amp amplifier drive		
		circuit))		0000 (11 (07
-	83		USPAT	2003/11/07
1		379/413.ccls. 379/413.01.ccls.)		11:28
1	1	(379/377.ccls. 379/375.01.ccls.		
1		379/373.01.ccls.) 379/93.05.ccls.) and		
	İ	(constant near4 current near4 (slic feed	1	
		battery driver amp amplifier drive		
		circuit)) and hook		0000 (11 (57
-	23		USPAT	2003/11/07
1		379/413.ccls. 379/413.01.ccls.)		12:15
		(379/377.ccls. 379/375.01.ccls.		
1		379/373.01.ccls.) 379/93.05.ccls.) and		
		(constant near4 current near4 (slic feed		
		battery driver amp amplifier drive		
		circuit) same hook) and hook	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2002/11/07
-	48	1 1 1	USPAT	2003/11/07
	1	379/413.ccls. 379/413.01.ccls.)		15:11
		(379/377.ccls. 379/375.01.ccls.		
1		379/373.01.ccls.) 379/93.05.ccls.) and		
1		((stor\$3 remember\$3 save saving) near5		
1	,	(tip ring))	Henam	2003/11/07
-	1	6078593.pn.	USPAT	12:24
1_		6078593.URPN.	USPAT	2003/11/07
1	1	0070J93.UKFN.	OSEAT	12:24
	<u> </u>		<u> </u>	1 -6 - 6 - 7

_	46	("3482030" "3879580" "4135202"	USPAT	2003/11/07
		"4200770" "4207431" "4218582"		12:24
		"4367548" "4405829" "4424414"		
		"4496800" "4530008" "4542437"		
		"4553161" "4606023" "4745468"		
		"4763191" "4813012" "4876592"		
		"4910586" "4926255" "4993019"		
		"4995082" "4998274" "5034807"		
		"5057915" "5063595" "5128752"		
		"5150247" "5227874" "5231668"		
		"5249044" "5272664" "5305312"		
		"5349341" "5349457" "5387927"		
İ		"5418625" "5444710" "5457560"		
		"5499241" "5572347" "5576874"		
		"5600469" "5680394" "5729370"		
		"5781320").PN.		
-	1	(("3482030" "3879580" "4135202"	USPAT	2003/11/07
1		"4200770" "4207431" "4218582"		12:26
		"4367548" "4405829" "4424414"		
		"4496800" "4530008" "4542437"		
		"4553161" "4606023" "4745468"		
		"4763191" "4813012" "4876592"		
		"4910586" "4926255" "4993019"		
1		"4995082" "4998274" "5034807"		
1		"5057915" "5063595" "5128752"		
		"5150247" "5227874" "5231668"		
1		"5249044" "5272664" "5305312"		
1		"5349341" "5349457" "5387927"		
		"5418625" "5444710" "5457560"		
		"5499241" "5572347" "5576874"		
		"5600469" "5680394" "5729370"		
		"5781320").PN.) and ((stor\$3 remember\$3		
1		latch\$3 sav\$3) near5 (tip ring))		•
-	5	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		13:17
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		((stor\$3 remember\$3 save saving) near5		
		(tip and ring))		
-	38	((stor\$3 remember\$3 save saving) near5	USPAT	2003/11/07
		(tip and ring)) and (subscriber slic		13:27
		slac)		
-	20	((buffer\$3) near5 (tip and ring)) and	USPAT	2003/11/07
		(subscriber slic slac)		13:29
-	2889	((stor\$3 memor\$5 latch\$3 buffering) near5	USPAT	2003/11/07
		(param parameter state mode voltage)) and		13:32
		(subscriber near5 (line interface card		
	1	circuit) slic slac)		2002/11/27
-	1859	((stor\$3 memor\$5 latch\$3 buffering) near2	USPAT	2003/11/07
		(param parameter state mode voltage)) and	1	13:33
		(subscriber near5 (line interface card		
	1.00	circuit) slic slac)	исрап	2002/11/07
-	1695	((stor\$3 memor\$5 latch\$3 buffering) near2	USPAT	2003/11/07
		(param parameter state mode (tip and		13:34
1		ring) near5 voltage)) and (subscriber		
		near5 (line interface card circuit) slic		
	1682	slac)	USPAT	2003/11/07
-	1002	((stor\$3 memor\$5 latch\$3 buffering) near2 (param parameter state mode (tip and	OSFAI	13:34
		ring) near5 voltage)) and (subscriber		13.34
		near5 (line interface card circuit) slic)		
l _	1385	((stor\$3 memor\$5 latch\$3 buffering) near2	USPAT	2003/11/07
1 -	1303	(param parameter state mode (tip and	OSEMI	13:34
		ring) near5 voltage)) and (subscriber		23.31
		near2 (line interface card circuit) slic)		
l _	863	((stor\$3 memor\$5 latch\$3 buffering) near	USPAT	2003/11/07
		(param parameter state mode (tip and	"""	13:34
		ring) near5 voltage)) and (subscriber		
		near2 (line interface card circuit) slic)		
L	L	cars (rance rincertace card circuit) 3110/	<u> </u>	<u> </u>

-	30	(((stor\$3 memor\$5 latch\$3 buffering) near	USPAT	2003/11/07
		(param parameter state mode (tip and		14:38
		ring) near5 voltage)) and (subscriber		
		near2 (line interface card circuit)		
		slic)) and (hook and (ring\$1trip ring adj		
	3	trip)) ("4429185" "4455456" "4899372").PN.	USPAT	2002/11/07
-	3	("4429165" "4455456" "4699372").PN.	USPAT	2003/11/07 14:30
1_	12	4899372.URPN.	USPAT	2003/11/07
-	12	4099372.URPN.	USPAI	14:30
_	298	379/399.01.ccls.	USPAT	2003/11/07
	250	3737333.01.0013.	OSTAL	14:38
_	66	379/399.01.ccls. and (ring\$1trip ring adj	USPAT	2003/11/07
		trip hook\$1switch hook adj switch)	******	15:05
_	2036	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		15:11
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.)		
-	81	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		15:55
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(stor\$3 near3 (potential voltage))		
-	156	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.)		15:57
		(379/377.ccls. 379/375.01.ccls.		[
		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(capacitor with (tip and ring))	IICD A TO	2002/11/07
_	20	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/07
		379/413.ccls. 379/413.01.ccls.) (379/377.ccls. 379/375.01.ccls.		16:03
		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(capacitor near5 (tip and ring) near5		i
		(capacitor nears (tip and ring) nears		
_	7	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/10
	· ·	379/413.ccls. 379/413.01.ccls.)	002332	09:11
		(379/377.ccls. 379/375.01.ccls.		05.22
		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(capacitor near5 stor\$3 with (tip and		
		ring))		
-	9	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/10
		379/413.ccls. 379/413.01.ccls.)		09:19
	ĺ	(379/377.ccls. 379/375.01.ccls.		[
-		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(capacitor near5 (filter\$3) with (tip and		
[_	7	ring)) ((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/10
-	l '	((3/9/382.ccis. (3/9/399\$3.ccis. 379/413.01.ccls.)	USPAI	09:19
		(379/377.ccls. 379/375.01.ccls.		UJ.13
		379/373.01.ccls.) 379/93.05.ccls.)) and		
		(capacitor with (stor\$3) with (tip and		
		ring))	,	
_	28	379.clas. and (capacitor near5 (stor\$3)	USPAT	2003/11/10
		with (tip and ring))		09:30
-	123	379.clas. and (capacitor with (current)	USPAT	2003/11/10
		with (tip and ring))		09:30
-	3	379.clas. and (capacitor with (extra	USPAT	2003/11/10
		increase\$1) with (current) with (tip and		09:32
		ring))		0000/11/10
-	110	379.clas. and (capacitor with (extra	USPAT	2003/11/10
	37	increase\$1) with (current))	Henra	09:32
-	37	379.clas. and (capacitor with (extra	USPAT	2003/11/10
		increase\$1) with (current)) and (tip and		09:38
_	60	ring) 379.clas. and (capacitor with (off\$1hook	USPAT	2003/11/10
	80	off adj hook) with (current)) and (tip	SPEKI	09:39
		and ring)		رد. در
-	105	379.clas. and (capacitor with (off\$1hook	USPAT	2003/11/10
		off adj hook) with (voltage current)) and		09:40
		(tip and ring)		

	35	379.clas. and (capacitor with (off\$1hook off adj hook) with (voltage current))	USPAT	2003/11/12 08:09
-	506	same (tip and ring) 379/413.ccls.	USPAT	2003/11/12 08:47
-	272	379/413.ccls. and ((power voltage energy current) near5 (back\$1up back adj up	USPAT	2003/11/12 09:25
_	124	capacit\$4)) 379/413.ccls. and (voltage near5 feed float\$3 near5 current)	USPAT	2003/11/12
-	8	("4007335" "4419542" "4612417" "4656661" "4736415" "4803721" "5444777" "5528688").PN.	USPAT	2003/11/12 09:53
-	1	6078593.pn.	USPAT	2003/11/12
	46	("3482030" "3879580" "4135202" "4200770" "4207431" "4218582" "4367548" "4405829" "4424414" "4496800" "4530008" "4542437" "4553161" "4606023" "4745468" "4763191" "4813012" "4876592" "4910586" "4926255" "4993019" "4995082" "4998274" "5034807" "5057915" "5063595" "5128752" "5150247" "5227874" "5231668" "5249044" "5272664" "5305312" "5349341" "5349457" "5387927" "5418625" "5444710" "5457560" "5499241" "5572347" "5576874" "5600469" "5680394" "5729370"	USPAT	2003/11/12 10:02
	10	"5781320").PN. (("3482030" "3879580" "4135202" "4200770" "4207431" "4218582" "4367548" "4405829" "4424414" "4496800" "4530008" "4542437" "4553161" "4606023" "4745468" "4763191" "4813012" "4876592" "4910586" "4926255" "4993019" "4995082" "4998274" "5034807" "5057915" "5063595" "5128752" "5150247" "5227874" "5231668" "5249044" "5272664" "5305312" "5349341" "5349457" "5387927" "5418625" "5444710" "5457560" "5499241" "5572347" "5576874" "5600469" "5680394" "5729370"	USPAT	2003/11/12 10:04
	0	"5781320").PN.) and feed (("3482030" "3879580" "4135202" "4200770" "4207431" "4218582" "4367548" "4405829" "4424414" "4496800" "4530008" "4542437" "4553161" "4606023" "4745468" "4763191" "4813012" "4876592" "4910586" "4926255" "4993019" "4995082" "4998274" "5034807" "5057915" "5063595" "5128752" "5150247" "5227874" "5231668" "5249044" "5272664" "5305312" "5349341" "5349457" "5387927" "5418625" "5444710" "5457560" "5499241" "5572347" "5576874" "5600469" "5680394" "5729370" "5781320").PN.) and (constant\$1voltage	USPAT	2003/11/12 10:04
		constant near5 voltage)	<u> </u>	

-	1	(("3482030" "3879580" "4135202"	USPAT	2003/11/12
		"4200770" "4207431" "4218582"		10:04
		"4367548" "4405829" "4424414"		
		"4496800" "4530008" "4542437"		
		"4553161" "4606023" "4745468"		
		"4763191" "4813012" "4876592"		
		"4910586" "4926255" "4993019"		
		"4995082" "4998274" "5034807" "5057015" "5063505" "5130753"		
		"5057915" "5063595" "5128752"		
		"5150247" "5227874" "5231668"		
		"5249044" "5272664" "5305312"		
		"5349341" "5349457" "5387927"		
		"5418625" "5444710" "5457560"		
1.		"5499241" "5572347" "5576874"		
'		"5600469" "5680394" "5729370"		
		"5781320").PN.) and (constant\$1current		
		constant near5 current)		
l _	197	379/413.ccls. and (voltage near5 feed	USPAT	2003/11/12
-	197	voltage\$1feed constant\$1voltage constant	OSFAI	10:07
				10:07
		near5 voltage)	Henry	2002/11/12
-	2040	379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/12
		379/413.ccls. 379/413.01.ccls.)		10:38
		(379/377.ccls. 379/375.01.ccls.	1	
		379/373.01.ccls.) 379/93.05.ccls.	1	
-	20	(379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/12
1		379/413.ccls. 379/413.01.ccls.)		10:39
		(379/377.ccls. 379/375.01.ccls.	1	
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(voltage\$1feed voltage adj feed)		1
	8	((379/382.ccls. (379/399\$3.ccls.	USPAT	2003/11/12
_	·		OSFAI	10:39
		379/413.ccls. 379/413.01.ccls.)	1	10:39
		(379/377.ccls. 379/375.01.ccls.		
		379/373.01.ccls.) 379/93.05.ccls.) and		
		(voltage\$1feed voltage adj feed)) and		
		(hook)		
-	225	(low\$1power\$3 low adj power\$3) near5	USPAT;	2004/06/24
		ring\$3	US-PGPUB	08:44
_	311	379/418.ccls.	USPAT;	2004/06/24
			US-PGPUB	08:44
<u> </u>	42	379/413.01.ccls.	USPAT;	2004/06/24
		0,3, 12010210020	US-PGPUB	08:44
	345	379/418.ccls. 379/413.01.ccls.	USPAT;	2004/06/24
1 -	343	3/3/410.0013. 3/3/413.01.0013.	US-PGPUB	08:46
I		/270/4101- 270/412 011- \		2004/06/24
1 -	32	(379/418.ccls. 379/413.01.ccls.) and	USPAT;	1
		(sense measure record store) near5 (loop	US-PGPUB	08:47
		line)		1
-	3	("4734936" "5216708" "5293420").PN.	USPAT	2004/06/24
				09:20
-	6	5426695.URPN.	USPAT	2004/06/24
	1			09:20
_	349	379/399.01.ccls.	USPAT	2004/06/24
				10:15
1_	64	379/399.01.ccls. and (sense measure	USPAT	2004/06/24
-	64	record store) near5 (loop line)	33171	10:15
	422		IICDAM	2004/06/24
-	432	379.clas. and (loop near5 length)	USPAT	
		l		12:52
-	156	(379.clas. and (loop near5 length)) and	USPAT	2004/06/24
	ĺ	(threshold)		12:53
-	103	((379.clas. and (loop near5 length)) and	USPAT	2004/06/24
	Ì	(threshold)) and (updat\$4 adapt\$4)		12:52
-	12	(379.clas. and (loop near5 length)) and	USPAT	2004/06/24
		(threshold with (updat\$4 adapt\$4))		12:53
1_	300	379/382.ccls.	USPAT;	2004/06/24
	1		US-PGPUB	14:29
_	3	("4429185" "4455456" "4899372").PN.	USPAT	2004/06/24
-	3		USERI	14:30
		F402402 UDDN	HEDAM	2004/06/24
-	18	5402482.URPN.	USPAT	
	<u> </u>		<u> </u>	14:31